Effect of Tinospora cordifolia Extract on Neutrophils, TNFα, and IFNγ Percentage in Balb/c Mice Infected with Salmonella typhimurium

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Effect of Tinospora cordifolia Extract on Neutrophils, TNFa, and IFNy Percentage in Balb/c Mice Infected with Salmonella typhimurium

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Abstract: Herbal medicine is still consumed by 80% populations in developing countries for primary health care. Tinospora cordifolia extracts are widely used as a system of traditional medicine for the treatment. T. cordifolia is a plant species that has a function as a natural immunomodulation. It increases the activity and function some components of nonspecific and specific immunity. The aim of the research is to know the effects of T. cordifolia extract on the immunity system and the regulation of neutrophil, $TNF\alpha$, and IFNy percentage. This study was conducted in Microbiological and Biomedical Laboratories, Faculty of Medicine, University of Brawijava. There was 5 treatment groups namely the negative control group (C-), the positive control group mice (C+), and the mice group were injected with S. typhimurium and treated with 0.225(D1), 0.375(D2), 0.75(D3) mg/day T. cordifolia extract. The result showed that the highest average of neutrophil was in D3 treatment, and the lowest average was in D1 treatment. The highest average of TNF α and IFN γ were in C(+) treatment and the lowest average were in C(-) treatment. The levels of TNF α decreased in proportion to increase the dose administered on rats treated with T. cordifolia extract. The increasing doses of therapy were not $\mathbf{1}$ companied by elevated levels of IFN γ . The conclusions are the percentage of neutrophil in The treatment group was higher than the control group, the percentage τ f IFN γ is increasing of the treatment group than the control group, and there is increasing of the treatment group than the control group.

Keywords: IFNy, neutrophil, Salmonella typhimurium, Tinospora cordifolia extract, TNFa.

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